



Water-Data Report 2008

08208000 Atascosa River at Whitsett, TX

Nueces Basin
Lower Nueces Subbasin

LOCATION.--Lat 28°37'19", long 98°16'52" referenced to North American Datum of 1927, Live Oak County, TX, Hydrologic Unit 12110111, on right bank at downstream side of bridge on Farm Road 99, 1.1 mi southwest of Whitsett, 4.2 mi downstream from La Parita Creek, and 12.9 mi upstream from mouth.

DRAINAGE AREA.--1,171 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Sept. 1924 to May 1926 (monthly discharge only), May 1932 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Jan. 1964 to Feb. 1968.

BIOCHEMICAL DATA: Jan. 1964 to Jan. 1968.

SEDIMENT DATA: Oct. 1976 to Dec. 1977, May 1980.

GAGE.--Water-stage recorder. Datum of gage is 159.04 ft above NGVD of 1929. Prior to May 8, 1926, nonrecording gage at bridge destroyed in 1956 at site 200 ft downstream at 1.38 ft higher datum. May 21, 1932, to Feb. 16, 1983, water-stage recorder at site 1,000 ft upstream at same datum. Satellite telemeter at station.

REMARKS.--Records good. Considerable loss of flow into various permeable formations occurs upstream from this station. The Campbellton water wells discharge into the Atascosa River 12.0 mi upstream from this station to supplement streamflow during dry periods. No known regulation. There are several small diversions above station. No flow at times. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1881, that of Sept. 1919, stage of 41 ft (discharge 50,000 ft³/s).

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jul 25	1900	*743	*11.03

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	20	13	15	10	11	8.7	320	14	1.6	1.9	18	19
2	23	12	16	10	11	8.6	79	10	1.6	2.6	13	16
3	28	13	13	9.9	11	8.5	45	7.9	1.4	3.5	11	13
4	26	13	13	10	10	8.2	29	6.1	1.3	4.1	11	12
5	23	12	12	11	9.9	7.9	21	5.8	1.3	9.5	9.2	11
6	21	12	12	11	9.7	8.9	16	5.7	0.25	15	11	12
7	19	12	12	11	9.8	12	14	5.4	0.08	10	10	11
8	19	12	12	11	9.9	9.9	12	4.7	0.06	18	8.7	9.0
9	19	12	12	11	9.8	9.1	11	4.4	0.07	28	6.7	8.6
10	18	12	11	11	9.8	9.4	10	4.2	1.9	28	7.1	8.2
11	18	12	11	11	9.9	14	9.8	4.0	3.0	26	6.6	7.7
12	17	12	11	11	10	11	9.3	3.6	2.9	21	5.3	6.3
13	16	12	11	11	10	12	8.3	3.1	2.9	17	4.4	5.2
14	16	12	12	11	9.9	13	8.1	3.4	3.0	11	3.4	6.0
15	16	11	11	11	10	10	7.8	3.5	2.9	8.2	3.0	4.7
16	16	11	11	11	11	9.6	7.6	3.7	2.4	6.5	2.9	4.0
17	17	12	10	11	10	9.5	8.2	4.5	2.1	5.4	5.7	3.7
18	17	12	11	11	9.6	9.1	8.3	4.7	2.1	4.4	18	3.5
19	16	12	11	12	9.7	8.5	9.0	3.6	2.2	3.9	27	3.4
20	16	12	10	12	10	7.9	8.6	3.8	2.0	3.7	35	3.3
21	15	11	11	11	10	7.5	13	3.3	2.2	3.4	107	3.3
22	15	11	11	12	10	7.1	10	2.9	2.4	3.0	152	3.2
23	15	10	11	11	9.6	6.9	8.0	2.5	2.3	2.7	102	3.0
24	14	14	11	11	9.4	7.2	7.6	2.4	2.4	160	261	2.8
25	13	17	11	12	9.4	7.2	6.9	2.1	2.1	623	482	2.7
26	14	30	11	12	9.0	7.5	10	2.1	2.0	423	222	2.2
27	14	23	11	12	8.4	7.5	17	2.0	2.1	97	85	1.9
28	13	17	11	12	8.2	6.9	40	2.0	2.2	44	48	1.9
29	13	16	11	12	8.5	6.6	31	2.2	1.8	31	32	2.1
30	13	15	11	12	---	7.0	19	1.8	1.7	26	27	2.2
31	13	---	11	11	---	75	---	1.7	---	23	22	---
Total	533	405	358	345.9	284.5	342.2	804.5	131.1	56.26	1,663.8	1,757.0	192.9
Mean	17.2	13.5	11.5	11.2	9.81	11.0	26.8	4.23	1.88	53.7	56.7	6.43
Max	28	30	16	12	11	75	320	14	3.0	623	482	19
Min	13	10	10	9.9	8.2	6.6	6.9	1.7	0.06	1.9	2.9	1.9
Ac-ft	1,060	803	710	686	564	679	1,600	260	112	3,300	3,490	383

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	107	69.8	58.3	73.5	87.7	47.5	143	209	230	179	71.5	244
Max	926	780	1,060	2,053	1,590	963	2,298	1,365	3,445	2,908	1,207	5,006
(WY)	(2003)	(2003)	(1992)	(1968)	(1992)	(2007)	(1977)	(1957)	(1935)	(2007)	(1946)	(1967)
Min	0.05	0.21	0.19	1.52	1.57	1.51	0.57	0.00	0.00	0.00	0.00	0.00
(WY)	(1989)	(1989)	(1989)	(1996)	(1990)	(1996)	(1996)	(1996)	(1989)	(1998)	(1954)	(1997)

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	Calendar Year 2007	Water Year 2008	Water Years 1932 - 2008
Annual total	166,184.3	6,874.16	
Annual mean	455	18.8	127
Highest annual mean			472
Lowest annual mean			2.29
Highest daily mean	13,100	Mar 15	65,000 Sep 23, 1967
Lowest daily mean	6.3	Mar 8	0.00 Jun 11, 1934
Annual seven-day minimum	6.4	Mar 5	0.00 Jun 11, 1934
Maximum peak flow		743 Jul 25	i121,000 Sep 23, 1967
Maximum peak stage		11.03 Jul 25	a41.30 Sep 23, 1967
Annual runoff (ac-ft)	329,600	13,630	92,020
10 percent exceeds	1,090	22	97
50 percent exceeds	39	10	11
90 percent exceeds	11	2.4	1.1

ⁱ From indirect measurement of peak flow.

^a From floodmark.

